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Superbulky penta-aryl cyclopentadienyl ligands in lanthanide chemistry

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2017

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

van Velzen, N. J. C. (2017). *Superbulky penta-aryl cyclopentadienyl ligands in lanthanide chemistry*. [Thesis fully internal (DIV), University of Groningen]. Rijksuniversiteit Groningen.

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Propositions

1. The beauty of symmetry becomes easily apparent when crystallizing complexes with bulky ligands. (Ch 2 and 3)
2. The phrase “big is beautiful” may be in contrast to mainstream beliefs, yet applies perfectly to the Cp^{BIG} ligand. (Ch 3)
3. $\text{Cp}^{\text{BIG}}_2\text{Mg}^{\text{II}}$ will never be synthesized. (Ch 4)
4. Frustratingly, $\text{Cp}^{\text{BIG}}\text{SiMe}_3$ is not a Frustrated Lewis Pair. (Ch 5)
5. A Cp^{BIG} ligand’s steric bulk and the stability of its complexes seem to be exponentially correlated. (Ch 6)
6. Low-valence DIPP-nacnac lanthanide complexes beyond samarium cannot exist. (Ch 7)
7. If computational chemistry keeps advancing as it does, future theses can contain double the work done in half the time.
8. While today’s science could probably benefit from less politics, today’s politics would definitely benefit from more scientists.
9. Nichts wird der menschlichen Gesundheit so sehr nützen und die Chancen für das Überleben auf der Erde so sehr erhöhen wie die Evolution zu einer vegetarischen Ernährungsweise. *Albert Einstein*